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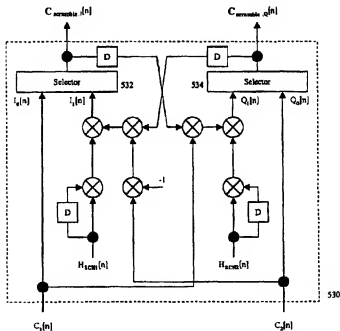
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(54) Title: TRANSMISSION AND RECEIVING USING SPREADING MODULATION FOR SPREAD SPECTRUM COMMUNICATIONS AND THEREOF APPARATUS



(57) Abstract: The present invention is related to a method and an apparatus for the orthogonal complex-domain spreading modulation in CDMA spread spectrum communication system when there are channels with statistically higher transmitting power. In CDMA spread spectrum communication systems with a transmitter and a receiver, the transmitter according to the invention has several channels with different information. Two channels with higher power than the others, which are spread in the conventional scheme, are spread with the orthogonal codes using a complex-domain multiplier. The spread signals are added. Then the signal are scrambled using a complex-domain multiplier with secondary scrambling sequences generated by a special scrambling code generator with primary scrambling sequences as inputs. The receiver does reverse operation of the transmitter.



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